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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>A61K 9/16, 9/51, 9/14</b>	<b>A3</b>	<b>(11) International Publication Number:</b> <b>WO 99/65469</b> <b>(43) International Publication Date:</b> 23 December 1999 (23.12.99)
<b>(21) International Application Number:</b> PCT/US99/13755 <b>(22) International Filing Date:</b> 18 June 1999 (18.06.99)  <b>(30) Priority Data:</b> 60/089,852 19 June 1998 (19.06.98) US  <b>(71) Applicant:</b> RTP PHARMA INC. [CA/US]; 4364 South Alston Avenue, Durham, NC 27713-2280 (US).  <b>(72) Inventors:</b> PACE, Gary, W.; 6913 Hunters Way, Raleigh, NC 27615 (US). VACHON, G., Michael; 445, rue Strathcona, Westmount, Quebec H3Y 2X2 (CA). MISHRA, K., Awadhesh; Appartement 201, 670 de Gaspe, Iles des Soeurs, Verdun, Quebec H3E 1H8 (CA). HENRIKSEN, Inge, B.; Lagaardsvegen 131, N-4010 Stavanger (NO). KRUKONIS, Val; 287 Emersion Road, Lexington, MA 02173 (US). GODINAS, Anthony; 30 Washington Street, Methuen, MA 01844 (US).  <b>(74) Agent:</b> CRAWFORD, Arthur, R.; Nixon & Vanderhye P.C., 8th floor, 1100 North Glebe Road, Arlington, VA 22201-4714 (US).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  <b>(88) Date of publication of the international search report:</b> 2 March 2000 (02.03.00)
<b>(54) Title:</b> PROCESSES TO GENERATE SUBMICRON PARTICLES OF WATER-INSOLUBLE COMPOUNDS  <b>(57) Abstract</b>  Submicron particles of water-insoluble compounds, particularly drugs, are prepared by simultaneously stabilizing microparticulate suspensions of same with surface modifier molecules by rapid expansion into an aqueous medium from a compressed solution of the compound and surface modifiers in a liquefied gas and optionally homogenizing the aqueous suspension thus formed with a high pressure homogenizer.		

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 99/13755

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61K9/16 A61K9/51 A61K9/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 99 52504 A (HOFFMANN LA ROCHE) 21 October 1999 (1999-10-21) the whole document	1-16
A	WO 97 14407 A (RES TRIANGLE PHARMACEUTICALS ; UNIV TEXAS (US); HENRIKSEN INGE B (U) 24 April 1997 (1997-04-24) cited in the application the whole document	1-16
A	WO 95 21688 A (WEIDNER ECKHARD ; KNEZ ZELJKO (SI); NOVAK ZORAN (SI)) 17 August 1995 (1995-08-17)	
A	US 3 998 753 A (ANTOSHKIW THOMAS WILLIAM ET AL) 21 December 1976 (1976-12-21)	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

23 December 1999

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# INTERNATIONAL SEARCH REPORT

Int. Application No  
PCT/US 99/13755

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	G. DONSI ET AL.: "POSSIBILITY OF APPLICATION TO PHARMACEUTICAL FIELD" PHARM. ACTA HELV, 1991 - 1991, pages 170-173, XP002900588 -----	

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Information on patent family members

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